QGE 100

DVI/RGB COMPUTER SCREEN CAPTURE IP ENCODER

- **Stream RGB or DVI computer-video screen captures to the Quantum Elite over an IP network**
- **Interface hundreds of DVI or RGB inputs into the Quantum Elite**
- **Uses existing network or a dedicated image network**
- **Image detail is preserved through lossless screen capture compression and digital image transmission**
- **Uses existing network or a dedicated image network**
- **Auto-sensing and flexible signal acquisition circuitry simplifies installation for both standard and non-standard sources**
- **Operates independently of source machine operating system and hardware**
- **Creates no additional load on the source machine CPU performance**
- **Allows for keyboard and mouse control over source machine from remote viewing locations**

The Extron QGE 100 Quantum Graphics Encoder captures RGB or DVI computer-video images and streams them to Quantum™ Elite videowall processors across IP networks. The QGE 100 is ideal for capturing text or data display, or graphics with medium to low motion. Lossless compression applied in the QGE 100 enables the capture and interfacing of hundreds of computer-video inputs to the Quantum Elite, using low network bandwidth while preserving image quality. A software viewer provides the added flexibility of remote keyboard and mouse control, and viewing of content captured from source PCs on the same IP network.

DESCRIPTION

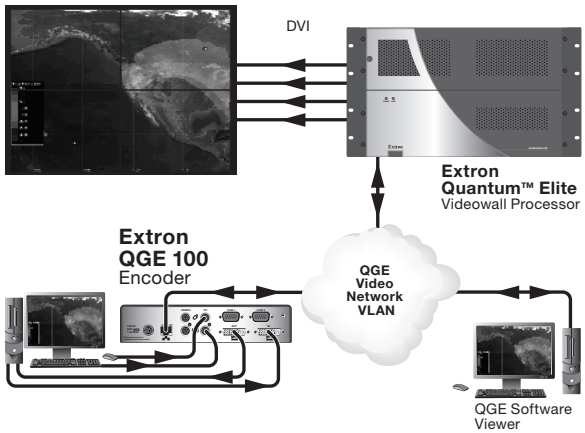
The Extron **QGE 100** Quantum Graphics Encoder captures and encodes the RGB monitor output of a computer or similar graphics device, and streams the content across an IP network to an Extron Quantum™ Elite videowall processor. The QGE 100 connects between the computer and its display, mouse, and keyboard. Software installed on terminal devices, such as workstations or videowall processors, can assume keyboard and mouse control of the source workstation, if desired.

The Quantum Graphics Encoder viewer software provides control over network connections, device addresses, user access, and bandwidth management of QGE 100 units.

The QGE 100 delivers high performance encoding with real-time, low latency streaming of source images with low to moderate motion. It is a robust, embedded solution utilizing a high performance digital signal processor to provide real-time compression.

FEATURES

- **Allows simple connection of a DVI or RGB source to an IP network**
- **Uses existing network or a dedicated image network**
- **Lossless compression maintains image fidelity while minimizing network bandwidth**
- **Auto-sensing and flexible signal acquisition circuitry simplifies installation for both standard and non-standard sources**
- **Operates independently of source machine operating system and hardware**
- **Creates no additional load on the source machine CPU performance**
- **Bandwidth capping and image compression increase input capacity for DVI or RGB sources on videowall systems**
- **Allows for keyboard and mouse control over source machine from remote viewing locations**



SPECIFICATIONS

COMPUTER INPUT

Connector	DVI-I (Analog and Digital) female in and out
Resolution	Up to 1600 x 1200 @ 60 Hz Analog and 1920 x 1200 DVI-D
Scan	Progressive
Signal	Analog RGB 700mV, DVI
Syncs	H&V, Composite, Sync on Green
Loop through	RGB signal looped through unchanged

NETWORK CONNECTION

Connector	RJ45 female
Interface	10/100Mbps (100BaseT)
Protocol	TCP/IP or UDP Multicast
Addressing	Static IP or Dynamic (DHCP) with host naming
Control	SNMP (or separate RS232)
Device detection	Auto discovery
Bandwidth management	Programmable bit rate capping
Functionality	RGB streaming; mouse & keyboard commands; configuration

KEYBOARD CONNECTION

Connector	Mini DIN female in and out
Interface	PS/2
Functionality	Loop- through; keyboard mimic

MOUSE CONNECTION

Connector	Mini DIN female in and out
Electrical interface	PS/2
Software interface	2, 3, 4, 5 button mice
Functionality	Loop- through; mouse mimic

SERIAL CONNECTION

Connector	9-pin D sub male
Electrical interface	RS-232
Protocol	115200 baud, 8 data, 1 stop, no parity, flow off
Functionality	Configure network parameters; update software

COMPATIBLE DISPLAY DEVICES

Computers	Microsoft Windows compatible PC
Videowall processors	Extron Quantum™ Elite

PHYSICAL

Size	7.9" x 6.125" x 1.75" (200 x 155 x 45mm)
Weight	1.43lb (0.67kg)
Temperature	41°F – 95°F (5°C – 35°C)
Humidity	85% maximum, non-condensing

POWER

Voltage	12V DC
Current	1.5A max at 12V
Mains	90-264V AC adapter supplied (over-voltage and short circuit protected; MTBF 50,000 hours @ 25°C)

APPROVALS

RFI/EMC	EN 55022 Class B; EN 55024 Class B; CE AC Adapter: FCC Class B; CE
Safety	EN60950 - 1992 AC Adapter: UL 60950

Model		Version Description	Part number
QGE 100	(ES3611)	Quantum Graphics Encoder	60-1113-01

Specifications are subject to change without notice.

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